

### **IFT20 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56041

#### **Specification**

# IFT20 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q8IY31</u>

Reactivity Rat, Pig, Bovine Rabbit

Clonality Polyclonal Calculated MW 15 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human IFT20

Epitope Specificity 1-100/132

Isotype IgG
Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Golgi apparatus, cis-Golgi network (By similarity). Cytoplasm, cytoskeleton

similarity). Cytoplasm, cytoskeleton, centrosome, centriole (By similarity). Cytoplasm, cytoskeleton, cilium basal body

(By similarity). Note=Present at the centrosomes during the cell cycle and associated with the proximal portion of the mother centriole and the lateral aspect of the daughter centriole. Associated with basal body at the base of primary cilia (By

similarity).

SUBUNIT

Component of IFT complex B composed of IFT88, IFT57, TRAF3IP1, IFT52, IFT27, HSPB11 and IFT20. Interacts directly with

IFT57 and KIF3B/Kinesin II subunit (By similarity). Interacts with CCDC41/CEP83. This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Important Note

### **Background Descriptions**

affinity purified by Protein A

IFT20 is a gene encodes a intraflagellar transport protein important for intracellular transport. The encoded protein forms part of a complex involved in trafficking of proteins from the Golgi body, including recycling of immune signalling components (Finetti et al., PubMed: 19855387). This gene is part of a complex set of sense-antisense loci that may be co-regulated. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome 14.

#### **IFT20 Polyclonal Antibody - Additional Information**



### **Gene ID 90410**

#### **Other Names**

Intraflagellar transport protein 20 homolog, hIFT20, IFT20

#### Target/Specificity

Expressed in almost all tissues.

#### **Dilution**

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class
="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_E">E~~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

### **IFT20 Polyclonal Antibody - Protein Information**

#### Name IFT20

#### **Function**

Part of intraflagellar transport (IFT) particles involved in ciliary process assembly (PubMed:<a href="http://www.uniprot.org/citations/17604723" target="\_blank">17604723</a>). May play a role in the trafficking of ciliary membrane proteins from the Golgi complex to the cilium (PubMed:<a href="http://www.uniprot.org/citations/16775004" target="\_blank">16775004</a>). Regulates the platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway. Required for protein stability of E3 ubiquitin ligases CBL and CBLB that mediate ubiquitination and internalization of PDGFRA for proper feedback inhibition of PDGFRA signaling (PubMed:<a href="http://www.uniprot.org/citations/29237719" target="\_blank">29237719</a>/a>). Essential for male fertility. Plays an important role in spermatogenesis, particularly spermiogenesis, when germ cells form flagella. May play a role in the transport of flagellar proteins ODF2 and SPAG16 to build sperm flagella and in the removal of redundant sperm cytoplasm (By similarity). Also involved in autophagy since it is required for trafficking of ATG16L and the expansion of the autophagic compartment (By similarity).

#### **Cellular Location**

Golgi apparatus, cis-Golgi network {ECO:0000250|UniProtKB:Q61025}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole {ECO:0000250|UniProtKB:Q61025}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q61025}. Cell projection, cilium {ECO:0000250|UniProtKB:Q61025}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q61025}. Golgi apparatus {ECO:0000250|UniProtKB:Q61025}. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q61025}. Cytoplasm {ECO:0000250|UniProtKB:Q61025}. Note=Present at the centrosomes during the cell cycle and associated with the proximal portion of the mother centriole and the lateral aspect of the daughter centriole. Associated with basal body at the base of primary cilia. Detected in the Golgi apparatus of round spermatids and late spermatocytes. Also detected in the manchette of step 10-12 spermatids. In step 14 spermatids, found in the basal body of the sperm tail. Localization in the manchette of elongating spermatids is dependent on SPAG17 {ECO:0000250|UniProtKB:Q61025}

#### **Tissue Location**

Expressed in almost all tissues.

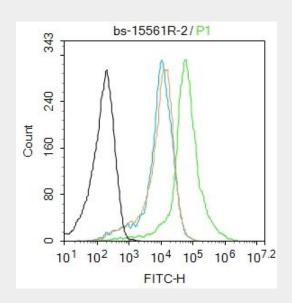


## **IFT20 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# IFT20 Polyclonal Antibody - Images



Blank control: Mouse spleen.

Primary Antibody (green line): Rabbit Anti-IFT20 antibody (bs-15561R)

Dilution: 2 µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: 1 µg /test.

Protocol

The cells were fixed with 70% ethanol (10min at room temperature) and then were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.